

Claims

1. A continuous web mixing device (01) with at least one former (02, 03), at least one longitudinal cutter (07, 08) and at least two guide paths, on each of which a partial continuous web (27, 28) of longitudinally cut partial webs of the continuous web (26) can be conducted, which are united into a main continuous web (29) at an outlet of the continuous web mixing device (01), characterized in that a stapler (17, 17') is arranged at one of the guide paths for stapling the partial continuous web (27) conducted on this guide path.

2. The continuous web mixing device (01) in accordance with claim 1, characterized by at least a second former (03, 02) and a guide path for conducting a second continuous web (24) or partial continuous web (27', 28') from the second former (03, 02) to the outlet.

3. The continuous web mixing device (01) in accordance with claim 2, characterized in that respective partial continuous webs (27, 28) of longitudinally cut partial webs from the first former (02, 03) are simultaneously conducted along both sides of the second former (03, 02) and are united at an outlet of the continuous web mixing device (01) with the further continuous web (24) from the second former (03, 02) located between them to form a main continuous web (29).

4. The continuous web mixing device (01) in accordance with claim 3, characterized in that in addition a stapler (17, 17') for stapling the partial continuous web (27, 28) or continuous web (24) conducted on the respective guide path is arranged at the other one of the guide paths for the two partial continuous webs (27, 28) and/or the guide path for the further continuous web (24).

5. A continuous web mixing device (01) with at least one former (02, 03) and at least one longitudinal cutter (07, 08), characterized in that at least two guide paths are assigned to a first one of the formers (02, 03), on which respective partial continuous webs (27, 28) of longitudinally cut partial webs from the first former (02, 03) can be simultaneously conducted along both sides of the second former (03, 02) and can be united at an outlet of the continuous web mixing device (01) together with the further continuous web (24) from the second former (03, 02) located between them to form a main continuous web (29).

6. The continuous web mixing device (01) in accordance with claim 5, characterized in that a stapler (17) for stapling the partial continuous web (27, 28), or the continuous web (24) is arranged on one of the guide paths for the two partial continuous webs (27, 28) and/or the guide path for the continuous web (24).

7. A continuous web mixing device (01) with at least two formers (02, 03), as well as two staplers (17, 17')

assigned to the formers (02, 03) in respectively one guide path from the assigned former (02, 03) to an outlet of the continuous web mixing device (01), characterized in that the continuous web mixing device (01) has at least one deflection roller (09, 14, 36, 37), over which a partial continuous web (27, 28, 27', 28'), or the entire continuous web (26, 24) from a first one of the formers (02, 03) can be conducted through the stapler (17', 17) assigned to the second former (03, 02) together with a partial continuous web (27', 28', 27, 28) or the entire continuous web (24, 26) from this second former (03, 02).

8. The continuous web mixing device (01) in accordance with claim 7, characterized in that at least one deflection roller (09, 14, 36, 37) is provided, over which selectively none of the partial continuous webs (27, 28, 27', 28'), a partial continuous web (28) from the one former (02), a partial continuous web (28') from the other former (03), or simultaneously partial continuous webs (27, 28, 27', 28') from both formers (02, 03) can be conducted or are conducted along a respective guide path between the two staplers (17, 17') to the outlet without passing through a stapler (17, 17').

9. The continuous web mixing device (01) in accordance with claim 7, characterized in that at least one deflection roller (09, 09', 10, 10', 11, 12) is provided, over which a partial continuous web (27, 28, 27', 28') from the former

(02, 03) can be guided around the two staplers (17, 17') along the outside of the continuous web mixing device (01) without passing through one of the staplers (17, 17').

10. The continuous web mixing device (01) in accordance with one of the preceding claims, characterized by a folding apparatus (19) arranged downstream of the continuous web mixing device (01).

11. The continuous web mixing device (01) in accordance with claim 1, 5 or 7, characterized in that the longitudinal cutter (07, 08) is arranged upstream of the former (02, 03).

12. The continuous web mixing device (01) in accordance with claim 1, 5 or 7, characterized in that partial webs cut by the longitudinal cutter (07, 08) are brought together by means of the former (02, 03).

13. The continuous web mixing device (01) in accordance with claim 1, 5 or 7, characterized in that the longitudinal cutter (07, 08) is arranged at the outlet of the former (02, 03) for cutting a longitudinal fold created by the former (02, 03) in a continuous web (26) conducted through it.

14. The continuous web mixing device (01) in accordance with claim 1, 5 or 7, characterized in that the main continuous web (19) is put together from at least one continuous web or partial continuous web (24, 28) of paper

webs which are not stapled, and at least one continuous web or partial continuous web (24, 27) of stapled paper webs.

15. The continuous web mixing device (01) in accordance with claim 1 or 5, characterized in that the continuous webs or partial continuous webs (24, 28) constituting the main continuous webs (29) are not connected with each other at least until their entry into a further processing folding apparatus (19).

16. The continuous web mixing device (01) in accordance with claim 1 or 5, characterized in that the main continuous web (19) is formed prior to entering a downstream-connected folding apparatus (19).

17. The continuous web mixing device (01) in accordance with claim 1 or 5, characterized in that the stapled partial continuous web (27, 28) is comprised of several layers and has been loosely combined in the area of the main continuous web (19) with the other partial continuous web (27, 28) from the same former (02, 03).

18. A method for mixing continuous webs, wherein at least two webs are conducted through a former (02, 03) and are longitudinally cut before or after the former (02, 03), characterized in that, following longitudinal folding and longitudinal cutting, the webs conducted through the former (02, 03) are initially divided into at least two partial continuous webs (27, 28, 31, 32) of longitudinally cut partial webs and are moved on along at least two guide paths,

and thereafter are again united into a main continuous web (29) at an outlet of the continuous web mixing device (01) for further processing, wherein at least the respective partial continuous web (27, 28) is stapled on at least one of the guide paths before it is again brought together with the other.

19. The method in accordance with claim 18, characterized in that partial webs conducted over the same former (02, 03) are assigned to a stapled and a not stapled partial continuous web (27, 28) prior to entering a downstream located folding apparatus (19).

20. The method in accordance with claim 18, characterized in that partial webs conducted over the same former (02, 03) are assigned to two different stapled partial continuous webs (27, 28) prior to entering a downstream located folding apparatus (19).